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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,271	09/23/2005	Hiroyasu Yumura	017700-0177	1269
22428 7590 07/11/2008 FOLEY AND LARDNER LLP			EXAMINER	
SUITE 500 3000 K STREET NW WASHINGTON, DC 20007			NORRIS, JEREMY C	
			ART UNIT	PAPER NUMBER
			2841	
			MAIL DATE	DELIVERY MODE
			07/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/550,271 YUMURA ET AL Office Action Summary Examiner Art Unit Jeremy C. Norris 2841 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 23 April 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3.4.8 and 11-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,3,4,8 and 11-15 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 23 September 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 27 March 2008 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 4, 8, and 11-15 are rejected under 35 U.S.C. 102(b) as being anticipated by US 3.612,742 (Snowden).

Snowden discloses, referring primarily to figures 3 and 5, a superconducting cable comprising: a former (70) made of a normal-conducting metal (col. 4, lines 15-30); a first superconducting layer (66) formed around the outer circumference of said former and in electrical communication with the former (col. 4, lines 40-45); an electric insulating layer (69) formed around the outer circumference of said first superconducting layer; a second superconducting layer (80) formed around the outer circumference of said electric insulating layer; and a normal-conducting metal layer (82,

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col. 4, lines 70-75) is formed only between said electric insulating layer and said second superconducting layer; any volume between the first superconducting layer and said electrical insulating later is free of the normal conducting metal laver: and wherein said first and second superconducting layers are in a state cooled by a refrigerant (col. 2, lines 40-55) [claim 1], wherein said normal-conducting metal layer is formed by winding round wires with a round cross section or tape-shaped wires formed from a normal-conducting metal [claim 3], further comprising wire insulating layers around outer circumferences of the wires [claim 4], wherein said superconducting wires have a matrix ratio within a range between 1.5 or more and 3.0 or less [claim 8].

Additionally, Snowden discloses, a superconducting cable comprising: a former (70) made of a normal-conducting metal (col. 4, lines 15-30); a first superconducting layer (66) formed around the outer circumference of said former and in electrical communication with the former (col. 4, lines 40-45); an electric insulating layer (69) formed around the outer circumference of said first superconducting layer; a second superconducting layer (80) formed around the outer circumference of said electric insulating layer; a normal-conducting metal layer (82) is formed between said electric insulating layer and in contact with said second superconducting layer; and wherein said first and second superconducting layers are in a state cooled by a refrigerant (col. 2, lines 40-55) [claim 11], wherein said normal- conducting metal layer is in contact with said electric insulating layer [claim 12], wherein said normal- conducting metal layer is formed by winding round wires with a round cross section or tape- shaped wires formed from a normal-conducting metal [claim 13], further comprising wire insulating layers

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around outer circumferences of the wires [claim 14], wherein said superconducting wires have a matrix ratio within a range between 1.5 or more and 3.0 or less [claim 15].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is (571)272-1932. The examiner can normally be reached on Monday - Thursday, 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean A. Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeremy C. Norris/ Primary Examiner, Art Unit 2841 Jeremy C. Norris Primary Examiner Art Unit 2841

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